

Please type a plus sign (+) inside this box →



PTO/SB/05 (12/97)

Approved for use through 09/30/00. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	132360-1/YOD GERD:0057	Total Pages	66
First Named Inventor or Application Identifier Jeffrey Wayne Eberhard			
Express Mail Label No. EV 365 158 292 US			

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Commissioner for Patents
P.O. Box 1450, Mail Stop Patent Application
Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification Total Pages 39
(preferred arrangement set forth below)
 - Descriptive
 - Cross References to Related Application
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 USC 113) Total Sheets 8
Total Pages 24
4. Oath or Declaration
 - a. ☐ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
[Note Box 5 below]
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a
copy of the oath or declaration is supplied under Box 4b,
is considered as being part of the disclosure of the
accompanying application and is hereby incorporated by
reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(where there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS
Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
14. ☐ Small Entity ☐ Statement filed in prior application
Statement(s) Status still proper and desired
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Other

17. ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: ____/____

18. CORRESPONDENCE ADDRESS

- ☐ Customer Number or Bar Code Label ☒ Correspondence address below
(Insert Customer No. or Attach bar code label here)

NAME	Patrick S. Yoder		
	Fletcher Yoder, P.C.		
ADDRESS	P.O. Box 692289		
CITY	Houston	STATE	Texas
COUNTRY	USA	TELEPHONE	(281) 970-4545
		ZIP CODE	77269-2289
		Fax	(281) 970-4503

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Mail Stop Patent Application, Alexandria, VA 22313-1450.

15992 U.S. PTO
033104

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL	Complete if Known		
	Application Number	Unassigned	
	Filing Date	Herewith	
	First Named Inventor	Jeffrey Wayne Eberhard	
	Group Art Unit	Unknown	
	Examiner Name	Unknown	
TOTAL AMOUNT OF PAYMENT	(\$) 1,032.00		
		Attorney Docket Number	132360-1/YOD (GERD:0057)

<p>METHOD OF PAYMENT (check one)</p> <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number 07-0868/132360-1/YOD (GERD:0057) Deposit Account Name General Electric Global Research Center</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.31(b)</p> <p>2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other <div style="text-align: center;">PTO-2038</div></p> <p style="text-align: center;">FEE CALCULATION (fees effective 10/01/2003)</p> <p>1. FILING FEE</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity</th> <th style="text-align: left;">Small Entity</th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>750</td> <td>2001</td> <td>375</td> <td>Utility filing fee</td> <td>770.00</td> </tr> <tr> <td>1002</td> <td>330</td> <td>2002</td> <td>165</td> <td>Design filing fee</td> <td>—</td> </tr> <tr> <td>1003</td> <td>520</td> <td>2003</td> <td>260</td> <td>Plant filing fee</td> <td>—</td> </tr> <tr> <td>1004</td> <td>750</td> <td>2004</td> <td>375</td> <td>Reissue filing fee</td> <td>—</td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td>—</td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (1)</td> <td>(\$) 770.00</td> </tr> </tbody> </table> <p>2. CLAIMS</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th>Extra</th> <th>Fee from below</th> <th></th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>25 - 20 =</td> <td>5</td> <td>X 18</td> <td>=</td> <td>90.00</td> </tr> <tr> <td>Independent Claims</td> <td>5 - 3 =</td> <td>2</td> <td>X 86</td> <td>=</td> <td>172.00</td> </tr> <tr> <td>Multiple Dependent Claims</td> <td>—</td> <td></td> <td>X —</td> <td>=</td> <td>—</td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Entity</th> <th style="text-align: left;">Small Entity</th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th></th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>1201</td> <td>84</td> <td>2201</td> <td>42</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>1203</td> <td>280</td> <td>2203</td> <td>140</td> <td>Multiple dependent claim</td> <td></td> </tr> <tr> <td>1204</td> <td>84</td> <td>2204</td> <td>42</td> <td>Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (2)</td> <td>(\$) 262.00</td> </tr> </tbody> </table>	Large Entity	Small Entity					Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	1001	750	2001	375	Utility filing fee	770.00	1002	330	2002	165	Design filing fee	—	1003	520	2003	260	Plant filing fee	—	1004	750	2004	375	Reissue filing fee	—	1005	160	2005	80	Provisional filing fee	—	SUBTOTAL (1)					(\$) 770.00			Extra	Fee from below		Fee Paid	Total Claims	25 - 20 =	5	X 18	=	90.00	Independent Claims	5 - 3 =	2	X 86	=	172.00	Multiple Dependent Claims	—		X —	=	—	Large Entity	Small Entity					Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description		1202	18	2202	9	Claims in excess of 20		1201	84	2201	42	Independent claims in excess of 3		1203	280	2203	140	Multiple dependent claim		1204	84	2204	42	Reissue independent claims over original patent		1205	18	2205	9	Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$) 262.00	<p>3. ADDITIONAL FEES</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Large Fee Code</th> <th style="text-align: left;">Entity Fee (\$)</th> <th style="text-align: left;">Small Fee Code</th> <th style="text-align: left;">Entity Fee (\$)</th> <th style="text-align: left;">Fee Description</th> <th style="text-align: left;">Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td>—</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing or cover sheet.</td><td>—</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td>—</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td>—</td></tr> <tr><td>112</td><td>920</td><td>112</td><td>920</td><td>Requesting publication of SIR prior to Examiner action</td><td>—</td></tr> <tr><td>113</td><td>1,840</td><td>113</td><td>1,840</td><td>Requesting publication of SIR after Examiner action</td><td>—</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for response within first month</td><td>—</td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for response within second month</td><td>—</td></tr> <tr><td>117</td><td>950</td><td>217</td><td>475</td><td>Extension for response within third month</td><td>—</td></tr> <tr><td>118</td><td>1,570</td><td>218</td><td>755</td><td>Extension for response within fourth month</td><td>—</td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td>—</td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td>—</td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td>—</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td>—</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive unavoidably abandoned application</td><td>—</td></tr> <tr><td>141</td><td>1,320</td><td>241</td><td>660</td><td>Petition to revive unintentionally abandoned application</td><td>—</td></tr> <tr><td>142</td><td>1,320</td><td>242</td><td>660</td><td>Utility issue fee (or reissue)</td><td>—</td></tr> <tr><td>143</td><td>450</td><td>243</td><td>225</td><td>Design issue fee</td><td>—</td></tr> <tr><td>144</td><td>670</td><td>244</td><td>335</td><td>Plant issue fee</td><td>—</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td>—</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td>—</td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td>—</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>0.00</td></tr> <tr><td>146</td><td>790</td><td>246</td><td>395</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td>—</td></tr> <tr><td>149</td><td>790</td><td>249</td><td>395</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td>—</td></tr> <tr><td colspan="5">Other fee (specify) —</td><td>—</td></tr> <tr><td colspan="5">Other fee (specify) —</td><td>—</td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (3)</td> <td>(\$) 0.00</td> </tr> </tbody> </table> <p>* Reduced by Basic Filing Fee Paid</p>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath	—	127	50	227	25	Surcharge - late provisional filing or cover sheet.	—	139	130	139	130	Non-English specification	—	147	2,520	147	2,520	For filing a request for reexamination	—	112	920	112	920	Requesting publication of SIR prior to Examiner action	—	113	1,840	113	1,840	Requesting publication of SIR after Examiner action	—	115	110	215	55	Extension for response within first month	—	116	400	216	200	Extension for response within second month	—	117	950	217	475	Extension for response within third month	—	118	1,570	218	755	Extension for response within fourth month	—	119	310	219	155	Notice of Appeal	—	120	310	220	155	Filing a brief in support of an appeal	—	121	270	221	135	Request for oral hearing	—	138	1,510	138	1,510	Petition to institute a public use proceeding	—	140	110	240	55	Petition to revive unavoidably abandoned application	—	141	1,320	241	660	Petition to revive unintentionally abandoned application	—	142	1,320	242	660	Utility issue fee (or reissue)	—	143	450	243	225	Design issue fee	—	144	670	244	335	Plant issue fee	—	122	130	122	130	Petitions to the Commissioner	—	123	50	123	50	Petitions related to provisional applications	—	126	240	126	240	Submission of Information Disclosure Stmt	—	581	40	581	40	Recording each patent assignment per property (times number of properties)	0.00	146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))	—	149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))	—	Other fee (specify) —					—	Other fee (specify) —					—	SUBTOTAL (3)					(\$) 0.00
Large Entity	Small Entity																																																																																																																																																																																																																																																																																																						
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																		
1001	750	2001	375	Utility filing fee	770.00																																																																																																																																																																																																																																																																																																		
1002	330	2002	165	Design filing fee	—																																																																																																																																																																																																																																																																																																		
1003	520	2003	260	Plant filing fee	—																																																																																																																																																																																																																																																																																																		
1004	750	2004	375	Reissue filing fee	—																																																																																																																																																																																																																																																																																																		
1005	160	2005	80	Provisional filing fee	—																																																																																																																																																																																																																																																																																																		
SUBTOTAL (1)					(\$) 770.00																																																																																																																																																																																																																																																																																																		
		Extra	Fee from below		Fee Paid																																																																																																																																																																																																																																																																																																		
Total Claims	25 - 20 =	5	X 18	=	90.00																																																																																																																																																																																																																																																																																																		
Independent Claims	5 - 3 =	2	X 86	=	172.00																																																																																																																																																																																																																																																																																																		
Multiple Dependent Claims	—		X —	=	—																																																																																																																																																																																																																																																																																																		
Large Entity	Small Entity																																																																																																																																																																																																																																																																																																						
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description																																																																																																																																																																																																																																																																																																			
1202	18	2202	9	Claims in excess of 20																																																																																																																																																																																																																																																																																																			
1201	84	2201	42	Independent claims in excess of 3																																																																																																																																																																																																																																																																																																			
1203	280	2203	140	Multiple dependent claim																																																																																																																																																																																																																																																																																																			
1204	84	2204	42	Reissue independent claims over original patent																																																																																																																																																																																																																																																																																																			
1205	18	2205	9	Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																																																																			
SUBTOTAL (2)					(\$) 262.00																																																																																																																																																																																																																																																																																																		
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																		
105	130	205	65	Surcharge - late filing fee or oath	—																																																																																																																																																																																																																																																																																																		
127	50	227	25	Surcharge - late provisional filing or cover sheet.	—																																																																																																																																																																																																																																																																																																		
139	130	139	130	Non-English specification	—																																																																																																																																																																																																																																																																																																		
147	2,520	147	2,520	For filing a request for reexamination	—																																																																																																																																																																																																																																																																																																		
112	920	112	920	Requesting publication of SIR prior to Examiner action	—																																																																																																																																																																																																																																																																																																		
113	1,840	113	1,840	Requesting publication of SIR after Examiner action	—																																																																																																																																																																																																																																																																																																		
115	110	215	55	Extension for response within first month	—																																																																																																																																																																																																																																																																																																		
116	400	216	200	Extension for response within second month	—																																																																																																																																																																																																																																																																																																		
117	950	217	475	Extension for response within third month	—																																																																																																																																																																																																																																																																																																		
118	1,570	218	755	Extension for response within fourth month	—																																																																																																																																																																																																																																																																																																		
119	310	219	155	Notice of Appeal	—																																																																																																																																																																																																																																																																																																		
120	310	220	155	Filing a brief in support of an appeal	—																																																																																																																																																																																																																																																																																																		
121	270	221	135	Request for oral hearing	—																																																																																																																																																																																																																																																																																																		
138	1,510	138	1,510	Petition to institute a public use proceeding	—																																																																																																																																																																																																																																																																																																		
140	110	240	55	Petition to revive unavoidably abandoned application	—																																																																																																																																																																																																																																																																																																		
141	1,320	241	660	Petition to revive unintentionally abandoned application	—																																																																																																																																																																																																																																																																																																		
142	1,320	242	660	Utility issue fee (or reissue)	—																																																																																																																																																																																																																																																																																																		
143	450	243	225	Design issue fee	—																																																																																																																																																																																																																																																																																																		
144	670	244	335	Plant issue fee	—																																																																																																																																																																																																																																																																																																		
122	130	122	130	Petitions to the Commissioner	—																																																																																																																																																																																																																																																																																																		
123	50	123	50	Petitions related to provisional applications	—																																																																																																																																																																																																																																																																																																		
126	240	126	240	Submission of Information Disclosure Stmt	—																																																																																																																																																																																																																																																																																																		
581	40	581	40	Recording each patent assignment per property (times number of properties)	0.00																																																																																																																																																																																																																																																																																																		
146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))	—																																																																																																																																																																																																																																																																																																		
149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))	—																																																																																																																																																																																																																																																																																																		
Other fee (specify) —					—																																																																																																																																																																																																																																																																																																		
Other fee (specify) —					—																																																																																																																																																																																																																																																																																																		
SUBTOTAL (3)					(\$) 0.00																																																																																																																																																																																																																																																																																																		

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name	John M. Rariden	Reg. Number	54,388		
Signature		Date	March 31, 2004	Deposit Acct. User ID	07-0868/132360-1/YOD (GERD:0057)